Stale
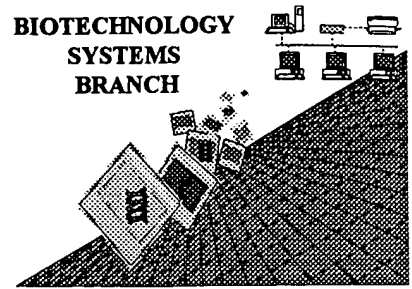
RAW SEQUENCE LISTING
ERROR REPORT

#5

12/19/98

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/105,117A

Art Unit / Team No. : 1652

Date Processed by STIC: 11/30/98

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

new format

Does Not Comply
Corrected Diskette Needed

<110> Vrjic, Marina
        Eggeling, Lothar
        Sahm, Harmann

<120> PROCESS FOR THE MICROBIAL PRODUCTION OF AMINO ACIDS BY BOOSTED
        ACTIVITY OF EXPORT CARRIERS

<130> FJ 122 - sequence listing ⟶ <140> US 09/105,117
                                       <141> 1998-06-17

<150>
<140> PCT/EP96/02485 *This is not the Current Application Number or Filing Date.*
<141> 1998-06-17
<151>

<150> PCT/DE96/02485
<151> 1996-12-18
Change the numeric identifiers to <140> and <141>

<150> 195 48 22.0
<151> 1995-12-22

<160> 3

<170>MS DOS text only - saved from Word 6.0   *Please consult new Sequence Rules for valid, acceptable format.*

<210> 1
<211> 290
<212> DNA *?*
<213> Corynebacterium glutamicum

~~Table 1~~ *& Delete*

<400> 1 *← add mandatory numeric identifier and response*

MNPIQLDTLL SIIDEGSFEG ASLALSISPS AVSQRVKALE HHVGRVLVSR 50   *delete*
                                                          ~~Helix-Turn-Helix Motif~~
TQPAKATEAG EVLVQAARKM VLLQAETKAQ LSGRLAEIPL TIAINADSLS 100
TWFPPVFNEV ASWGGATLTL RLEDEAHTLS LLRRGDVLGA VTREANPVAG 150
CEVVELGTMR HLAIATPSLR DAYMVDGKLD WAAMPVLRFG PKDVLQDRDL 200   *These appear to be one-letter amino acids. See 1.822 of new Sequence Rules for valid, acceptable*
DGRVDGPVGR RRVSIVPSAE GFGEAIRRGL GWGLLPETQA APMLKAGEVI 250
LLDEIPIDTP MYWQRWRLES RSLARLTDAV VDAAIEGLRP   290

<210> 2
<211> 2374
<212> DNA
<213>Cornyebacterium glutamicum   *delete periods*
~~Table 2~~

<400> 2
GGTAAACGAC TTCCACAATG AGACGGACCG GGTTAAGGAC GCCCGCTTCT TCACTTTTTG
GGACTTGGAA AAGTCTTCAT TGATTCCGGC GTTAGGGAGC TAACGACGTA GTTGCTGCCG   ~~Lys~~

insert space *space*

1. Use lower-case letters for bases.
2. Number bases at the right margin of each line - cumulative totals
3. Insert a space after every 10 bases, in a non-coding part of a nucleic acid sequence.

bases (put in lower-case).
Amino acids are numbered below every 5 amino acids and are represented by three-letter.

invalid format ● *09/105,117A* ?

(P R) ?

```
CAGACACTCA GATCGATCTC TAGATCTAAG GTCCGCGGTA GCAACGGTTA TGTAGCCACA
    D     T     L     R     A     L     S     R     S     E     L
```
?

```
CAGTTACCCA TAGAGTAGCT CCTCCTAGTG AAGAGGACGA AAATCGTACC CTCGTCGAAC
    D     I     P     I     E     D     L     L     I     V     E

CCAAAGCCCT TCTTCAGGGG TTGGTTCCGG AGCCGCTTAA CGGAGTGGTT TTGGAAGGCG
    T     E     P     L     L     G     W     G     L     G     R     R

GCTGCCCTGT TACCTATGCG CGGACGCGGG GTGTCCTGGT AGCTGCGCGG GCAGGTCCAG
    S     P     V     I     S     V     R     R     R     G     V

TGCCAGAACT TCGTGTAGAA ACCCTGGCTT CGCATTCTGC CCGTAGCGTC GGGTTAGATC
    R     D     Q     L     V     D     K     P     G     F     R     L

AAAGGGTAGT TGGTACATCC GTAGGGCGTT ACTCCCCCAA CGTTACCGGT TCACCGCGTA
    K     G     D     V     M     Y     A     D     R     L     S     P

CCAAGGTTCA AGATGATGAA GTGTAGGGCG GTGCCCTAAT CGAAGTGCCC AATGGCGAGG
    T     G     L     E     V     V     E     C     G     A     V     P

ATTTTGTAGA GGTGCGGCGT CGTTCCTATT ACACACGCGA AGTAGAAGGT TCGCGTCGCA
    L     V     D     G     R     R     L     L     S     L     T     H

CTCGCAACGA GGTGGGGTTC TTCGATGGAG CAACTTGTGC CCTCCTTTGG TACACCTATC
    L     T     A     G     G     W     S     A     V     E     N     F

GCTTAGACGC AACTACCGCT ACCAATTGCC CTAAAGTCGT TCCGCAGGTC TATCAACGCG
    S     D     A     N     I     A     I     T     L     P     I

AAATCAAAGA CGAACGTCGT TGTGGTAAAA GGCGCGACGA ACGTGTTCCT GAAGTGGGCG
    K     T     E     A     Q     L     L     V     M     K     R     A

AAGCCAACGA AACCGGCCAA CCCACGCGCT ATGGTTGTGA GCTGGGTGCA CTACGAGCTC
    E     T     A     K     A     P     Q     T     R     S     V

TCGAAATTGC GCGACTGAGT GGCGGCTCCC CCTTTACCTT TCCCGATTCC TCCGCGGAAG
    A     K     V     R     Q     S     V     A     S     P     S     I
```

```
CTTCGACGGA AGTAGTTACT AACTCTCGTT TCACAGGTC AACTTACCCC AAGTA<----5'
5'      - S  TGCCTTCATCAATGATTGAGAGCAAAGTGTCCAGTTGAATGGGGTTCATGAAGCT
    F     S     G     E     D     I     I     S     L     L     T     D

ATATTAAACC ATGTTAAGAA CCAATCATTT TACTTAAGTA CTTCCATAGG TCACGATGGT
```

```
GATCATGGAA ATCTTCATTA CAGGTCTGCT TTTGGGGGCC AGTCTTTTAC TGTCCATCGG
    I     M     E     I     F     I     F     T     G     L     L     L     G

ACCGCAGAAT GTACTGGTGA TTAAACAAGG AATTAAGCGC GAAGGACTCA TTGCGGTTCT
    P     Q     N     V     L     V     I     K     Q     G     I     K
```

If these bases are coding parts of a nucleic acid sequence, they need to be grouped into triplets, with the corresponding three-letter amino acid directly below the triplet. Number the amino acids under every 5 amino acids. DO NOT use TAB codes between amino acid numbers. Use space characters.

```
TCTCGTGTGT TTAATTTCTG ACGTCTTTTT GTTCATCGCC GGCACCTTGG GCGTTGATCT
  L     V     C     L     I     S     D     V     F     L     F     I

TTTGTCCAAT GCCGCGCCGA TCGTGCTCGA TATTATGCGC TGGGGTGGCA TCGCTTACCT
  L     S     N     A     A     P     I     V     L     D     I     M

GTTATGGTTT GCCGTCATGG CAGCGAAAGA CGCCATGACA AACAAGGTGG AAGCGCCACA
  L     W     F     A     V     M     A     A     K     D     A     M     T

GATCATTGAA GAAACAGAAC CAACCGTGCC CGATGACACG CCTTTGGGCG GTTCGGCGGT
  I     I     E     E     T     E     P     T     V     P           D
                                                             >>>>>>>

GGCCACTGAC ACGCGCAACC GGGTGCGGGT GGAGGTGAGC GTCGATAAGC AGCGGGTTTG
  A     T     D     T     R     N     R     V     R     V     E     V

GGTAAAGCCC ATGTTGATGG CAATCGTGCT GACCTGGTTG AACCCGAATG CGTATTTGGA
  V     K     P     M     L     M     A     I     V     L     T     W

CGCGTTTGTG TTTATCGGCG GCGTCGGCGC GCAATACGGC GACACCGGAC GGTGGATTTT
  A     F     V     F     I     G     G     V     G     A     Q     Y

CGCCGCTGGC GCGTTCGCGG CAAGCCTGAT CTGGTTCCCG CTGGTGGGTT TCGGCGCAGC
  A     A     G     A     F     A     A     S     L     I     W     F

AGCATTGTCA CGCCCGCTGT CCAGCCCCAA GGTGTGGCGC TGGATCAACG TCGTCGTGGC
  A     L     S     R     P     L     S     S     P     K     V     W

                                              (2) N  E  R  T  K
                                                      >>>>>>>
       CTAC TGGCGTAACC GGTAGTTTGA CTACAACTAC CCAATCAAAA GCGCCCAAAA
5'> AGTTGTGATG ACCGCATTGG CCATCAAACT GATGTTGATG GGTTAGTTTT CGCGGG  5'>
  V     V     M     T     A     L     A     I     K     L     M     L

CCTTAGCCAC CGGAAGCGGG TTTACAACTA CGGCCGCAGC ACCCTTTAGA GTAGCTAGCG
  S     D     T     A     K     A     W     I     N     I     G     A
                                 <<<<<

GAGGTTGAGC CGCAGTCTTT TGAGGTTCAA CAACTCACTT AGTTCCGACA ACAGGTCGAC
  E     L     E     A     D     S     F     E     L     N     N

GAGTTGACTG CTTCGTGGTT AGTTACGTGA CCAGTGCCAT AGGCGCGGCA TGAGAGGAAC
  E     V     S     S     A     G     I     L     A     S     T

GAGCGCGTCG TGGGTACGTT CGCGGTAGAC GCGTTCACTG ACGGGCGCAA GGACCCGCTA
  E     R     L     V     W     A     L     A     M     Q     A     L

CAGTAACTCG AACGCCTGGT ATAGTTATAA CAAGTGCAAG TTGTACGGGA GTCTGTCCCT
  D     N     L     K     R     V     M     D     I     N     N     V

GAATGGGACC GACCGCGCCC TTGGGAGACC TTAAGGTAGC TCTATAAACA GGCACTCGTC
  K     G     Q     S     A     R     S     G     E     P     I

CGGGACGCGT TCACCACTCT TTCGTTACTG CGGTTCTGGT AACAACCGTC GACTGACGTT
  G     Q     A     L     P     S     F     A     I     V     G     L
```

Represent nucleic acid by a single strand only, in the 5' to 3' direction

```
GTTCAAGAGT GGCAGTAGCG GGCCAAGGAG GTGGGTTGCT AATTACTACC TTATCGAACC
    L         N         E         G        D    D    G        P         E         E         V    W

GACTACTTAG TCTTCGCCCG TCGGGAGGAG GCGGTACTTG AGTCGGCGGA GGCGACACTC
    Q         H    I         L    L    P        C    G         E         E         A

GAGACCTGGC ATCCTTCTTT ATGGGTGCAT TTCTCGGAAA GGTCTGCGTT GTTACAGTGC
    E         P    G         Y    S    S         I    G    V    Y         L    A

GTTACGCATG TACCAAAGAA GGTTTCCTCA TAGA
    L    A    Y         M    T    E         E    L    P    T    D
```
                                                              ─orf3+

<210> 3
<211> 236 ?
<212> DNA ?
<213> Corynebacterium glutamicum

Table 3

<400> 3

```
MVIMEIFITG LLLGASLLLS IGPQNVLVIK QGIKREGLIA VLLVCLISDV    50
    ─TMH1────────────────────                        ─TMH2─
FLFIAGTLGV DLLSNAAPIV LDIMRWGGIA YLLWFAVMAA KDAMTNKVEA   100
                      ─TMH3─
PQIIEETEPT VPDDTPLGGS AVATDTRNRV RVEVSVDKQR VWVKPMLMAI   150

VLTWLNPNAY LDAFVFIGGV GAQYGDTGRW IFAAGAFAAS LIWFPLVGFG   200
           ─TMH4─
AAALSRPLSS PKVWRWINVV VAVVMTALAI KLMLMG                   236
                                      ─TMH6─
```

There appear to be one-letter amino acids.